Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application.

1. (currently amended) A method for automatically exchanging objects in a wireless mobile environment, comprising:

(1)   initiating communication with a compatible element;

(2)   transmitting a request for objects to a source said compatible element;

(2)(3) receiving at least some of said requested objects from said source compatible element; and

(3)(4) processing said received objects;

wherein step (2) is performed using a frequency down-conversion module comprising a switch, a capacitor coupled to said switch, and a pulse generator coupled to said switch; and

wherein said pulse generator outputs pulses to said switch, wherein said pulses have apertures and cause said switch to close and sub-sample a carrier signal over said apertures, and wherein energy is transferred from the carrier signal and stored using said capacitor during said apertures of said pulses, and wherein a lower frequency signal is generated from the transferred energy wherein said compatible element includes at least one of an interrogator and a source within a wireless communication range of operation.

2. (currently amended) The method of claim 1, further comprising:

~~generating said request based on~~ <u>receiving from a user</u> at least one of user

preferences, profile, and instructions.

3. (original) The method of claim 1, wherein said objects comprise at least one of

audio files, video files, multimedia files, software, and skins.

4. (currently amended) The method of claim 1, wherein steps (1), (2), ~~and~~ (3)<u>,</u>

<u>and (4)</u> are performed without human involvement.

5. (currently amended) The method of claim 1, further comprising:

        providing payment for said <u>requested</u> objects.

6. (currently amended) The method of claim 1, wherein step (1) ~~is performed~~

~~using a frequency up-conversion module~~ <u>comprises</u>:

                <u>verifying that said compatible element has a sharing mode enabled; and</u>

                <u>determining a set of objects said compatible element is sharing.</u>

7. (currently amended) The method of claim 6~~1~~<u>1</u>, ~~wherein said frequency up-~~

~~conversion module comprises a pulse shaping module~~ <u>further comprising</u>:

                <u>receiving a request for objects from said compatible element; and</u>

                <u>transmitting at least some of said requested objects to said compatible</u>

<u>element.</u>

8. (currently amended) The method of claim ~~1~~7, ~~wherein said frequency down-conversion module~~ further ~~comprises~~ comprising:

~~an input impedance match circuit coupled to an input of said frequency down-conversion module~~

receiving at least some of said requested objects from at least one of a content provider, a functionality provider, and an interface provider.

9. (currently amended) The method of claim 1, ~~wherein said frequency down-conversion module~~ further ~~comprises~~ comprising:

~~an output impedance match circuit coupled to an output of said frequency down-conversion module~~ communicating with a security device of a user.

10. (currently amended) The method of claim ~~1~~2, ~~wherein said switch module is coupled between an input of said frequency down-conversion module and said capacitor~~ further comprising:

generating said request based on at least one of said user preferences, profile, and instructions.

11. (currently amended) The method of claim ~~1~~2, wherein ~~said capacitor is coupled between an input of said frequency down-conversion module and said switch module~~ step (4) further comprises:

providing said received objects to said user based on at least one of said user preferences, profile, and instructions.

12. (currently amended) A~~n~~ apparatus for automatically exchanging objects in a wireless mobile environment, comprising:

means for identifying a source;

means for transmitting a request for objects to ~~a~~ said source;

means for receiving at least some of said requested objects from said source; and

means for processing said received objects;

~~wherein said receiving means comprises a frequency down-conversion module comprising a switch, a capacitor coupled to said switch, and a pulse generator coupled to said switch; and~~

wherein said ~~pulse generator outputs pulses to said switch, wherein said pulses have apertures and cause said switch to close and sub-sample a carrier signal over said apertures, and wherein energy is transferred from the carrier signal and stored using said capacitor during said apertures of said pulses, and wherein a lower frequency signal is generated from the transferred energy~~ source is within a wireless communication range of operation.

13. (currently amended) The apparatus of claim 12, further comprising:

~~means for generating said request based on~~ means for receiving from a user of the apparatus at least one of user preferences, profile, and instructions.

14. (original) The apparatus of claim 12, wherein said objects comprise at least one of audio files, video files, multimedia files, software, and skins.

15. (currently amended) The apparatus of claim 12, further comprising:

means for providing payment for said requested objects.

16. (currently amended) The apparatus of claim ~~12~~13, ~~wherein said transmitting means comprises a frequency up-conversion module~~ further comprising:

means for generating said request based on at least one of said user preferences, profile, and instructions, and a local storage of objects.

17. (currently amended) The apparatus of claim ~~16~~13, wherein said ~~frequency up-conversion module comprises a pulse shaping module further comprising:~~ processing means provides said received objects to said user based on at least one of said user preferences, profile, and instructions.

18. (currently amended) The apparatus of claim 12, ~~wherein said frequency down-conversion module~~ further ~~comprises~~ comprising:

~~an input impedance match circuit coupled to an input of said frequency down-conversion module~~ means for securing the apparatus, wherein a user engages said security means to interact with the apparatus.

19. (currently amended) The apparatus of claim 12, wherein said ~~frequency down-conversion module further comprises:~~

~~an output impedance match circuit coupled to an output of said frequency down-conversion module~~ identifying means identifies said source based on a wireless communication range of operation of said source.

20. (currently amended) The apparatus of claim ~~12~~19, ~~wherein said switch~~ ~~module is coupled between an input of said frequency down conversion module and said~~ ~~capacitor~~ further comprising:

> means for receiving a request for objects; and
>
> means for transmitting at least some of said requested objects.

21. (currently amended) The apparatus of claim ~~12~~20, ~~wherein said capacitor is~~ ~~coupled between an input of said frequency down conversion module and said switch~~ ~~module~~ further comprising:

> means for receiving at least some of said requested objects from at least
> one of a content provider, a functionality provider, and an interface provider.

22. (new) A system for automatically exchanging objects in a wireless mobile environment, comprising:

> a first element having a first wireless access point and a first controller;
> and
>
> a second element having a second wireless access point and a second
> controller, wherein said second wireless access point is capable of transmitting at least
> one object to said first element;
>
> wherein said first wireless access point is capable of receiving the at least
> one object from said second element, and wherein said first element provides the at least
> one object to a user.

23. (new) The system of claim 22, wherein said first wireless access point is capable of transmitting the at least one object to said second element, and wherein said second wireless access point is capable of receiving the at least one object from said first element.

24. (new) The system of claim 22, wherein said first and second wireless access points include at least one of a receiver, a transmitter, and a transceiver.

25. (new) The system of claim 22, wherein said first and second controllers include at least one of a hardware state machine and a processor operating according to software.

26. (new) The system of claim 22, wherein said second wireless access point is within a wireless communication range of operation of said first wireless access point.

27. (new) The system of claim 22, wherein the at least one object includes at least one of audio files, video files, multimedia files, software, and skins.

28. (new) The system of claim 22, further comprising:

a security device having a third wireless access point and a third controller, wherein the user interacts with said security device to control access to said first element.

29. (new) The system of claim 22, further comprising:

at least one of a content provider, a functionality provider, and an

interface provider, wherein said second device is capable of receiving the at least one

object from said at least one content provider, functionality provider, and interface

provider.

30. (new) The system of claim 22, wherein said first element receives from the

user at least one of user preferences, profile, and instructions.

31. (new) A method for a first vehicle to automatically exchange objects with a

second vehicle in a wireless mobile environment, comprising:

    (1) approaching the second vehicle;

    (2) initiating communication with the second vehicle, wherein the second

vehicle is within a wireless communication range of the first vehicle;

    (3) transmitting a request for objects to the second vehicle;

    (4) receiving at least some of the requested objects from the second

vehicle; and

    (5) processing the received objects.

32. (new) The method of claim 31, further comprising:

    performing steps (2)-(5) without human involvement.

33. (new) The method of claim 31, wherein step (3) comprises:

    transmitting a request to the second vehicle for at least one of audio files,

video files, multimedia files, software, and skins.

34. (new) The method of claim 31, further comprising:

receiving a request for objects from the second vehicle; and

transmitting at least some of the requested objects to the second vehicle.

35. (new) The method of claim 31, further comprising:

receiving a request for payment information from the second vehicle for

the requested objects; and

providing the payment information to the second vehicle.

36. (new) The method of claim 31, further comprising:

receiving at least one of user preferences, user profile, and instructions

from a user of the first vehicle.

37. (new) The method of claim 36, further comprising:

providing the received objects to the user of the first vehicle.

38. (new) The method of claim 36, further comprising:

communicating with a security device of the user of the first vehicle.

39. (new) A method for automatically exchanging objects between a vehicle and

a service station in a wireless mobile environment, comprising:

(1) approaching the service station;

(2) initiating communication with the service station, wherein the service

station is within a wireless communication range of the vehicle;

(3) transmitting a request for objects to the service station;

(4) receiving at least some of the requested objects from the service

station; and

(5) processing the received objects.

40. (new) The method of claim 39, further comprising:

performing steps (2)-(5) without human involvement.

41. (new) The method of claim 39, wherein step (3) comprises:

transmitting a request to the service station for at least one of audio files,

video files, multimedia files, software, and skins.

42. (new) The method of claim 39, further comprising:

receiving a request for objects from the service station; and

transmitting at least some of the requested objects to the service station.

43. (new) The method of claim 39, further comprising:

receiving a request for payment information from the service station for

the requested objects; and

providing the payment information to the service station.

44. (new) The method of claim 39, further comprising:

receiving at least one of user preferences, user profile, and instructions

from a user of the first vehicle.

45. (new) The method of claim 44, further comprising:

providing the received objects to the user of the first vehicle.

46. (new) The method of claim 44, further comprising:

communicating with a security device of the user of the first vehicle.

47. (new) The apparatus of claim 12, wherein the apparatus includes a first

vehicle.

48. (new) The apparatus of claim 47, wherein said source includes a second

vehicle.

49. (new) The apparatus of claim 47, wherein said source includes a service

station.

50. (new) The apparatus of claim 12, wherein the apparatus includes a personal

data assistant (PDA).

51. (new) The apparatus of claim 50, wherein said source includes at least one of

a restaurant, a store, and an information portal.

52. (new) The apparatus of claim 18, wherein the apparatus includes a first

vehicle, and wherein said means for securing the apparatus includes a key chain within a

wireless communication range of operation of the first vehicle.

53. (new) The system of claim 22, wherein said first element includes a first

vehicle.

54. (new) The system of claim 53, wherein said second element includes a

second vehicle within a wireless communication range of operation of said first vehicle.

55. (new) The system of claim 53, wherein said second element includes a

service station within a wireless communication range of operation of said first vehicle.

56. (new) A computer program product comprising a computer usable medium

having computer program logic recorded thereon for enabling a processor to

automatically exchange objects in a wireless mobile environment, the computer program

logic comprising:

    range determining means for enabling said processor to determine

whether an element is within a wireless communication range of operation;

    request generating means for enabling said processor to generate a request

for objects from said element;

    object receiving means for enabling said processor to receive at least

some of said requested objects transmitted by said element, wherein said object receiving

means further enables a processor to store said received objects; and

providing means for enabling said processor to provide said received

objects to a user.

57. (new) The computer program product of claim 56, further comprising:

receiving means for enabling said processor to receive from said user at

least one of user preferences, profile, and instructions.

58. (new) The computer program product of claim 57, further comprising:

evaluating means for enabling said processor to evaluate at least one of

said user preferences, profile, and instructions, wherein said request generating means

enables a processor to generate a request for objects based on said evaluation.

59. (new) The computer program product of claim 57, further comprising:

evaluating means for enabling said processor to evaluate at least one said

user preferences, profile, and instructions, wherein said providing means enables said

processor to provide said received objects to a user based on said evaluation.

60. (new) The computer program product of claim 56, wherein said objects

comprise at least one of audio files, video files, multimedia files, software, and skins.

61. (new) The computer program product of claim 56, further comprising:

payment information generating means for enabling said processor to

generate payment information in response to a request from said element to provide

payment for said requested objects.

62. (new) The computer program product of claim 56, further comprising:

interrogating means for enabling said processor to determine whether said element has a sharing mode enabled, wherein said interrogating means further enables said processor to determine a set of objects said element is sharing when said sharing mode is enabled.

63. (new) The computer program product of claim 62, further comprising:

evaluating means for enabling said processor to evaluate said set of objects, wherein said request generating means enables a processor to generate a request for objects based on said evaluation.

64. (new) The computer program product of claim 56, further comprising:

object retrieving means for enabling said processor to retrieve objects from a local storage in response to a request for objects from said element.

65. (new) The computer program product of claim 64, wherein said object retrieving means further enables said processor to retrieve said requested objects from at least one of a content provider, a functionality provider, and an interface provider.

66. (new) The computer program product of claim 56, further comprising:

verifying means for enabling said processor to determine whether said user enabled the processor to automatically exchange objects.